

## **HANDHALD CALCULATOR WITH PROBLEMS AND OPERATIONS LINKED LISTS**

### **Abstract**

A hand-held calculator programmed to teach mathematics in a manner which emulates traditional step-by-step teacher-student teaching methods and shows the important intermediate steps. Using linked lists, the method allows the use of selected data sets of problems and provides choices of mathematical operations, including transformations which are applicable or can operate on a selected problem. Importantly, the choices available to the student will not always lead to a solution or simplification of the problem. This allows the student to see the effect of an improper choice, as well as a proper choice.

### **IN THE ABSTRACT:**

Please replace page 23 with the following substitute page 23, in which the original title has been replaced with the new title, and in which the Abstract has been replaced with the following rewritten Abstract:

1        ~~A~~ ~~The present invention discloses the use of a~~ hand-held calculator  
2        programmed to teach mathematics in a manner which emulates traditional step-  
3        by-step teacher-student teaching methods and shows the important intermediate  
4        steps. Using linked lists, the ~~The~~ method allows the use of selected data sets of  
5        problems and provides choices of mathematical operations, including  
6        transformations which are applicable or can operate on a selected problem.  
7        Importantly, the choices available to the student will not always lead to a solution  
8        or simplification of the problem. This allows the student to see the effect of an  
9        improper choice, as well as a proper choice.